

A. Permit Certificate

**INDUSTRIAL  
WASTEWATER REUSE PERMIT  
LA-000095-03**

**CTI-SSI Food Services, LLC**, LOCATED AT **22303 Highway 95,**  
**Wilder, ID 83676** IS HEREBY AUTHORIZED TO CONSTRUCT,  
INSTALL, AND OPERATE A WASTEWATER REUSE SYSTEM IN  
ACCORDANCE WITH THE WASTEWATER REUSE RULES (IDAPA  
58.01.17) AND THE WASTEWATER RULES (IDAPA 58.01.16), THE  
GROUND WATER QUALITY RULE (IDAPA 58.01.11), AND  
ACCOMPANYING PERMIT, APPENDICES, AND REFERENCE  
DOCUMENTS. THIS PERMIT IS EFFECTIVE FROM THE DATE OF  
SIGNATURE AND EXPIRES ON **XXXXXX XX, 2013.**

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Pete Wagner  
Boise Regional Office Administrator  
Idaho Department of Environmental Quality

**DRAFT**

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Date

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
Boise Regional Office  
1445 N Orchard, Boise ID 83709-2239  
(208) 373-0550**

**POSTING ON SITE RECOMMENDED**

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### Appendices

1. Environmental Monitoring Serial Numbers
2. Site Maps

### References

1. Plan of Operation as last updated January 16, 2007, or a revised version approved by DEQ per CA-095-01, including:
  - Nuisance Odor Management Plan dated November 19, 2007, or a revised version approved by DEQ per CA-095-01;
  - Buffer Zone Plan as accepted by DEQ in a letter dated December 31, 2007, or a revised version approved by DEQ per CA-095-01;
  - F-N Land Management Plan with restrictions per the September 12, 2005 modification to LA-000095-02, or a revised version approved by DEQ per CA-095-01;
  - Waste Solids Management Plan, per CA-095-05.
2. Groundwater Statistical Analysis Protocol, per CA-095-02
3. TDS and Related Constituents Management Plan, per CA-095-03
4. Plan for Rehabilitation of Small Plant Site Lagoons if approved prior to this permit's becoming effective or per CA-095-04

The Sections, Appendices, and Reference Documents listed on this page are all elements of Wastewater Reuse Permit LA-000095-03 and are enforceable as such. This permit does not relieve CTI-SSI Food Services, LLC, hereafter referred to as the permittee, from responsibility for compliance with other applicable federal, state or local laws, rules, standards or ordinances.

## C. Abbreviations and Definitions

Ac-in	Acre-inch. The volume of water or wastewater to cover 1 acre of land to a depth of 1 inch. Equal to 27,154 gallons.
BMP or BMPs	Best Management Practices
COD	Chemical Oxygen Demand
DEQ or the Department	Idaho Department of Environmental Quality
Director	Director of the Idaho Department of Environmental Quality, or the Directors Designee, i.e. Regional Administrator
ET	Evapotranspiration – Loss of water from the soil and vegetation by evaporation and by plant uptake (transpiration)
GS	Growing Season
GW	Ground Water
GWQR	IDAPA 58.01.11 “Ground Water Quality Rule”
Guidance	Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, DEQ.
HLRgs	Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to reuse hydraulic management units during the growing season. The HLRgs limit is specified in Section F. Permit Limits and Conditions.
HLRngs	Non-Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to each hydraulic management unit during the non-growing season. The HLRngs limit is specified in Section F. Permit Limits and Conditions.
HMU	Hydraulic Management Unit (Serial Number designation is MU)
IWR	<p>Irrigation Water Requirement – Any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season (GS). Calculation methodology for the IWR can be found at the following website: <a href="http://www.kimberly.uidaho.edu/water/appndxet/index.shtml">http://www.kimberly.uidaho.edu/water/appndxet/index.shtml</a>. The equation used to calculate the IWR at this website is:</p> $IWR = (CU - P_e) / E_i$ <p>CU is the monthly consumptive use for a given crop in a given climatic area. CU is synonymous with crop evapotranspiration</p> <p><math>P_e</math> is the effective precipitation. CU minus <math>P_e</math> is synonymous with the net irrigation requirement (IR)</p> <p><math>E_i</math> is the irrigation system efficiency. To obtain the gross irrigation water requirement (IWR), divide the IR by the irrigation system efficiency.</p>
IDAPA	Idaho Administrative Procedures Act.
LG	Lagoon

## C. Abbreviations and Definitions

lb/ac-day	Pounds (of constituent) per acre per day
MG	Million Gallons (1 MG = 36.827 acre-inches)
MGA	Million Gallons Annually (per WLAP Reporting Year)
NGS	Non-Growing Season – Typically November 01 through March 31 (151 days)
NVDS	Non-Volatile Dissolved Solids (i.e. Total Dissolved Solids less Volatile Dissolved Solids)
O&M manual	Operation and Maintenance Manual, also referred to as the Plan of Operation
Point of Compliance	That point in the reclamation and reuse facility where the reclaimed wastewater must meet the requirements of the permit. There may be more than one (1) point of compliance within the facility depending on the constituents to be monitored.
Reuse	The use of reclaimed wastewater for beneficial uses including, but not limited to, land treatment, irrigation, aquifer recharge, use in surface water features, toilet flushing in commercial buildings, dust control, and other uses.
Reuse Reporting Year	The reporting year begins with the non-growing season and extends through the growing season of the following year, typically November 01 – October 31. For example, the 2000 Reporting Year was November 01, 1999 through October 31, 2000.
SAR	Sodium Absorption Ratio
SI	Supplemental Irrigation water applied to the reuse treatment site.
Soil AWC	Soil Available Water Holding Capacity - the water storage capability of a soil to a depth at which plant roots will utilize (typically 60 inches or root limiting layer)
SMU	Soil Monitoring Unit (Serial Number designation is SU)
SW	Surface Water
TDS	Total Dissolved Solids or Total Filterable Residue
TDIS	Total Dissolved Inorganic Solids – The summation of chemical concentration results in mg/L for the following common ions: calcium, magnesium, potassium, sodium, chloride, sulfate, and 0.6 times alkalinity (alkalinity expressed as calcium carbonate). Nitrate, Silica and fluoride shall be included if present in significant quantities (i.e. > 5 mg/L each).
TMDL	Total Maximum Daily Load – The sum of the individual waste-load allocations (WLA's) for point sources, Load Allocations (LA's) for non-point sources, and natural background. Such load shall be established at a level necessary to implement the applicable water quality standards with seasonal variations and a margin of safety that takes into account any lack of knowledge concerning the relationship between effluent limitations and water quality. IDAPA 58.01.02 <i>Water Quality Standards and Wastewater Treatment Requirements</i>
Typical Crop Uptake	Typical Crop Uptake is defined as the median constituent crop uptake from the three (3) most recent years the crop has been grown. Typical Crop Uptake is determined for each hydraulic management unit. For new crops having less than three years of on-site crop uptake data, regional crop yield data and typical nutrient content values, or other values approved by DEQ may be used.
USGS	United States Geological Survey
WW	Wastewater applied to the reuse treatment site

## D. Facility Information

<b>Legal Name of Permittee</b>	CTI-SSI Food Services, LLC
<b>Type of Wastewater</b>	Industrial Wastewater
<b>Method of Treatment</b>	Rotary screen for solids removal and Dissolved Air Flotation clarifier
<b>Method of Reuse</b>	Slow-rate application
<b>Type of Facility</b>	Private
<b>Facility Location</b>	22303 Highway 95, approximately 2.5 miles north of Wilder, Idaho
<b>Legal Location</b>	T4N, R5W, Sections 8 and 17 (land application sites)
<b>County</b>	Canyon
<b>USGS Quad</b>	Wilder
<b>Soils on Site</b>	Loamy fine sands, well drained
<b>Depth to Ground Water</b>	26 to 77 feet below ground surface
<b>Beneficial Uses of Ground Water</b>	Agriculture, industrial, domestic
<b>Nearest Surface Water</b>	Snake River, 4,400 feet
<b>Beneficial Uses of Surface Water</b>	Agriculture, industrial, domestic, recreation, and aquatic life
<b>Responsible Official Mailing Address</b>	CTI-SSI Food Services, LLC Mr. Randy Shuman P.O. Box 700 Caldwell, Idaho 83606
<b>Phone / Fax</b>	(208) 482-4226 / (208) 482-7457
<b>Facility Consultant Mailing Address</b>	Brockway Engineering 2016 North Washington Street, Suite 4 Twin Falls, Idaho 83301
<b>Phone / Fax</b>	(208) 736-8543 / (208) 736-8506

## E. Compliance Schedule for Required Activities

The Activities in the following table shall be completed on or before the Completion Date unless modified by the Department in writing.

Compliance Activity Number Completion Date	Compliance Activity Description
<p style="text-align: center;"><b>CA-095-01</b></p> <p style="text-align: center;"><b>Review &amp; Update Plan of Operation</b></p> <p style="text-align: center;">Submit letters or revised plans within 6 months of permit issue date</p>	<p>Review and update the approved Plan of Operation (Operation and Maintenance Manual or O&amp;M Manual) for the wastewater treatment and reuse facilities, to incorporate the requirements of this permit. The updated O&amp;M Manual shall also update and incorporate the following plans, which had been approved by DEQ under the previous permit, in light of the requirements of this permit:</p> <ol style="list-style-type: none"> <li>1. Nuisance Odor Management Plan</li> <li>2. Buffer Zone Plan</li> <li>3. F-N Land Management Plan</li> <li>4. Waste Solids Management Plan, per CA-095-05 of this permit.</li> </ol> <p>Continue to comply with the requirements and procedures set forth in each existing plan unless and until DEQ approves a revised plan.</p>
<p style="text-align: center;"><b>CA-095-02</b></p> <p style="text-align: center;"><b>Revised Groundwater Analysis Protocol and Annual Groundwater Evaluation</b></p> <p style="text-align: center;">As specified</p>	<ol style="list-style-type: none"> <li>1. Within six (6) months after permit issuance, submit for DEQ review and approval, a Protocol to conduct an annual statistical analysis of groundwater quality results for nitrate, Total Dissolved Solids (TDS), sulfate, and chloride. The Protocol shall be based on the protocol that DEQ approved under compliance activity CA-095-08 of the previous permit. In addition to evaluating statistical trends at individual wells, the Protocol shall also evaluate the differences in the groundwater constituent concentrations between the up and down-gradient wells at each HMU in order to assess the impacts that reuse operations at the HMU may be having on groundwater quality.</li> <li>2. Submit an annual groundwater evaluation using the approved Protocol to report groundwater quality trends. The groundwater evaluation shall be submitted with the annual report.</li> </ol>
<p style="text-align: center;"><b>CA-095-03</b></p> <p style="text-align: center;"><b>TDS and Related Constituents Management Plan</b></p> <p style="text-align: center;">As specified</p>	<ol style="list-style-type: none"> <li>1. Within six (6) months after permit issuance, submit for DEQ review and approval, a Plan for monitoring and managing the TDS, sulfate and chloride that are introduced into the environment as a result of ongoing reclaimed water reuse operations. The objective of the Plan shall be to identify and set forth implementation procedures for measures or actions for managing the effects of these constituents on the environment, mainly groundwater quality, in a manner which maintains or improves the quality of the environment through the use of best management practices and best practical methods to the maximum extent practical.</li> <li>2. Upon DEQ approval, implement the Plan.</li> <li>3. Submit an annual evaluation of the effectiveness of the Plan with regards to protecting the environment from the reclaimed water reuse operation with respect to those constituents. The evaluation shall include recommendations for changes to make the Plan more effective. The evaluation shall be submitted with the annual report.</li> </ol>

## E. Compliance Schedule for Required Activities

<b>Compliance Activity Number</b>  <b>Completion Date</b>	<b>Compliance Activity Description</b>
<p style="text-align: center;"><b>CA-095-04</b></p> <p style="text-align: center;"><b>Rehabilitation of Small Plant Site Lagoons</b></p> <p style="text-align: center;">As specified</p>	<p>If DEQ has approved a Plan for Rehabilitation of the Small Plant Site Lagoons prior to this permit's becoming effective, then proceed to implement that Plan. Otherwise, submit a Plan for the Rehabilitation of the Small Plant Site Lagoons for DEQ review and approval within six (6) months of the effective date of this permit. The Plan shall address repair, replacement or abandonment of the two small plant site lagoons. The Plan shall include characterization data and recommendations for the removal, handling and disposal of the waste solids associated with this work. The Plan shall comply with the requirements of Section I, No. 5. Implement the Plan after DEQ approval.</p> <p>If the Plan calls for these lagoons to be retained for future wastewater operations, then seepage rate testing shall be conducted in accordance with DEQ-approved procedures. Submit the proposed seepage rate test protocol to DEQ for review and approval within one (1) month after removing the waste solids.</p> <p>Complete seepage rate tests in accordance with the DEQ-approved procedures and submit results for DEQ review and approval within three (3) months after removing the waste solids.</p> <p>DEQ practice generally allows 0.125 inches/day or less for new ponds and 0.25 inches/day or less for existing ponds. If the seepage rate tests indicate that a lagoon does not meet these seepage requirements, submit a plan and schedule within 90 days after obtaining seepage results, for DEQ review and approval, indicating the proposed actions for addressing the deficiency.</p>
<p style="text-align: center;"><b>CA-095-05</b></p> <p style="text-align: center;"><b>Waste Solids Management Plan</b></p> <p style="text-align: center;">Within six (6) months after the permit issue date</p>	<p>Submit a Waste Solids Management Plan to DEQ for review and approval. The Plan shall be incorporated into the Plan of Operation, and may be submitted concurrently for DEQ review. The Plan shall describe how waste solids generated at the facility will be handled and disposed of to meet the requirements of Section I, No. 5. The Plan shall specifically address the management and disposal of waste solids generated at the plant and waste solids generated as the result of maintenance (cleaning) of the reclaimed wastewater reuse system's lagoons, pipes and mechanical equipment. The Plan should not address waste solids generated as a result of the rehabilitation of the two small plant site lagoons.</p>
<p style="text-align: center;"><b>CA-095-06</b></p> <p style="text-align: center;"><b>Seepage Rate Testing</b></p> <p style="text-align: center;">As specified</p>	<p>Conduct seepage rate testing in accordance with DEQ-approved procedures. Submit the seepage rate test protocol by March 31, 2009 for the following lagoons which were previously tested in early summer 2004:</p> <ul style="list-style-type: none"> <li>● Large plant site lagoon (1.9 MG)</li> <li>● Small land application site lagoon (0.7 MG)</li> <li>● Large land application site lagoon (3.2 MG)</li> </ul> <p>Complete seepage rate tests and submit results for DEQ review and approval by no later than July 31, 2009.</p> <p>DEQ practice generally allows 0.125 inches/day or less for new ponds and 0.25 inches/day or less for existing ponds. If the seepage rate tests indicate that a lagoon does not meet these seepage requirements, submit a plan and schedule within 90 days after obtaining seepage results, for DEQ review and approval, indicating the proposed actions for addressing the deficiency.</p>

### E. Compliance Schedule for Required Activities

Compliance Activity Number  Completion Date	Compliance Activity Description
<b>CA-095-07</b> <b>Soil Available</b> <b>Water Capacity</b> <b>Assessment and/or</b> <b>Verification Plan</b>  As specified	<p>In the event that the permittee elects to pursue the use of alternate values for the available water capacity (AWC) of soils on permitted hydraulic management units, a protocol for the methodology to be used to determine the AWC values must be submitted for DEQ review and approval. The proposed methodology should be based upon statistically valid field assessments and/or statistical verification of previous field work conducted onsite.</p> <p>The permittee will implement any work necessary under the framework of the approved protocol, and submit a the proposed AWC values for DEQ review and approval.</p> <p>Upon approval of alternate AWCs, DEQ will modify the non-growing season hydraulic loading rate limits of this permit accordingly.</p>

Following approval of the Plans required by the Compliance Activities, these Plans will be included as References to this Permit, and shall be enforceable as part of this Permit.

## F. Permit Limits and Conditions

The Permittee is allowed to apply wastewater and treat it on a reuse site as prescribed in the tables below and in accordance with all other applicable permit conditions and schedules.

Category	Permitted Limits and Conditions																								
Type of Wastewater	Industrial Wastewater																								
Application Site Area:	357.1 acres (MU-009501, 2, 5 and 6), and 36 acres as emergency use only with DEQ prior approval (MU-009503)																								
Application Season:																									
Growing Season (GS)	March 15 to October 31																								
Non-Growing Season (NGS)	November 1 to March 14																								
Reporting Year for Annual Loading Rates	November 1 to October 31																								
Growing Season Maximum Hydraulic Loading Rate (Applies to wastewater and supplemental irrigation water)	<p>Growing Season (GS) Hydraulic Loading Rate shall be substantially equal to the Irrigation Water Requirement (IWR) using data from the tables of the following University Of Idaho web site: <a href="http://www.kimberly.uidaho.edu/water/appndxet/index.shtml">http://www.kimberly.uidaho.edu/water/appndxet/index.shtml</a></p> <p>IWR is equal to the Mean IR data from these tables divided by the irrigation system efficiency.</p> <p>In lieu of these tables, current climatic and evaporation data, or 30-year average data may be used to calculate the IWR, as defined on page 3 of this permit. Assume no carryover soil moisture and a leaching rate of zero in calculating the IWR. Application shall generally follow consumptive use rates for the crop throughout the season.</p>																								
Non-Growing Season Maximum Hydraulic Loading Rate	<p>Soil AWC – Precipitation<sub>NGS</sub> + Evapotranspiration<sub>NGS</sub> allowed on the following hydraulic management units (HMUs):</p> <table><tr><td>HMU #</td><td>Field Description</td><td>Million Gallons<sup>2</sup></td><td>Inches<sup>2</sup></td></tr><tr><td>MU-009501</td><td>Field CP-N</td><td>18.3</td><td>5.8</td></tr><tr><td>MU-009502</td><td>Field CP-S</td><td>18.3</td><td>5.8</td></tr><tr><td>MU-009503</td><td>Corner Pivot Areas</td><td>5.8</td><td>5.8</td></tr><tr><td>MU-009506</td><td>Field CP-17B</td><td>13.9</td><td>5.8</td></tr><tr><td>MU-009503</td><td>Field F-N<sup>1</sup></td><td>5.7</td><td>5.8</td></tr></table> <p>Note: 1. Land application of reclaimed wastewater on Field F-N is reserved for emergency use to prevent exceeding NGS hydraulic limits on the other fields. Application shall be in accordance with the F-N Site Management Plan, contained in the approved O&amp;M Manual, and this permit. CTI-SSI shall notify DEQ at least seven (7) days prior to applying wastewater to Field F-N.</p> <p>2. The NGS Hydraulic Loading Rate limits may be altered in accordance with CA-095-07 of this permit.</p>	HMU #	Field Description	Million Gallons <sup>2</sup>	Inches <sup>2</sup>	MU-009501	Field CP-N	18.3	5.8	MU-009502	Field CP-S	18.3	5.8	MU-009503	Corner Pivot Areas	5.8	5.8	MU-009506	Field CP-17B	13.9	5.8	MU-009503	Field F-N <sup>1</sup>	5.7	5.8
HMU #	Field Description	Million Gallons <sup>2</sup>	Inches <sup>2</sup>																						
MU-009501	Field CP-N	18.3	5.8																						
MU-009502	Field CP-S	18.3	5.8																						
MU-009503	Corner Pivot Areas	5.8	5.8																						
MU-009506	Field CP-17B	13.9	5.8																						
MU-009503	Field F-N <sup>1</sup>	5.7	5.8																						

## F. Permit Limits and Conditions

Category	Permitted Limits and Conditions
<b>Runoff</b>	Operate and maintain runoff control structures in accordance with the Plan of Operation and Buffer Zone Plan. See Compliance Activity CA-095-01 in Permit Section E – <i>Compliance Schedule for Required Activities</i> .
<b>Livestock Grazing</b>	A grazing management plan shall be submitted to DEQ for review and approval prior to any grazing activities.
<b>Groundwater Quality</b>	Ambient ground water quality at the land application site exceeds standards contained in the <i>Ground Water Quality Rule (GWQR)</i> , IDAPA 58.01.11. Compliance with the GWQR shall be determined using the ground water evaluations submitted to satisfy compliance activity CA-095-02 in Section E.
<b>Maximum COD Loading, seasonal average in Pounds/acre-day, each HMU</b>	50 pounds/acre-day seasonal average for the growing season. 50 pounds/acre-day seasonal average for the non-growing season.
<b>Maximum Nitrogen Loading Rate, pounds/acre-year, each HMU</b>	150% of typical crop uptake in pounds/acre-year from all sources, including waste solids, animal wastes, and supplemental fertilizers. This limit applies to each crop within each HMU.
<b>Maximum Phosphorus Loading Rate, pounds/acre-year, each HMU</b>	None. DEQ reserves the right to re-open this permit for inclusion of phosphorus limits.
<b>Maximum Total Dissolved Solids (TDS) Loading Rate, pounds/acre-year, each HMU</b>	None. DEQ reserves the right to re-open this permit for inclusion of TDS limits.
<b>Maximum Sulfate Loading Rate, pounds/acre-year, each HMU</b>	None. DEQ reserves the right to re-open this permit for inclusion of sulfate limits.
<b>Maximum Chloride Loading Rate, pounds/acre-year, each HMU</b>	None. DEQ reserves the right to re-open this permit for inclusion of chloride limits.
<b>Construction Plans</b>	Prior to construction or modification of all wastewater facilities associated with the reuse system, detailed plans and specifications shall be reviewed and approved by DEQ. Within 30 days of completion of construction, the permittee shall submit as-built plans to DEQ for review and approval.
<b>Wellhead Protection and Buffer Zones</b>	Wellhead protection and buffer zones shall be in accordance with the DEQ-approved Buffer Zone Plan (see Referenced Documents on page 2)
<b>Supplemental Irrigation Water Protection</b>	For systems with wastewater and fresh irrigation water interconnections, DEQ-approved backflow prevention devices are required.

## F. Permit Limits and Conditions

Category	Permitted Limits and Conditions
<b>Odor Management</b>	The wastewater treatment plant, land application facilities, and other operations associated with the facility shall not create a public health hazard or nuisance conditions including odors. Odor management shall be in accordance with the DEQ-approved Odor Management Plan (see Referenced Documents on page 2)
<b>Fencing and Posting</b>	As required in accordance with the DEQ-approved Buffer Zone Plan (see Referenced Documents on page 2)
<b>Allowable Crops</b>	Crops grown for direct human consumption (those crops that are not processed prior to consumption) are not allowed.

## G. Monitoring Requirements

- 1) Appropriate analytical methods, as given in the *Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater* or as approved by the Idaho Department of Environmental Quality (hereinafter referred to as DEQ), shall be employed. A description of approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the Plan of Operation (see Referenced Documents on page 2)
- 2) The permittee shall monitor and measure parameters as stated in the Facility Monitoring Table in this section.
- 3) Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.
- 4) Monitoring is required at the frequency shown in the table below if wastewater is applied anytime during the time period shown. Unless otherwise agreed in writing by the DEQ, data collected and submitted shall include, but not be limited to, the parameters and frequencies in the Facility Monitoring Table as follows.
- 5) Ten (10) soil sample locations shall be selected for each soil management unit (SU) with greater than fifteen acres and five (5) soil sample locations shall be selected for each soil management unit (SU) with fifteen acres or less. Three (3) soil samples shall be collected at each sample location, one at 0-12 inches, one at 12-24 inches, and one at 24-36 inches. The soil samples collected at each depth shall be composited to yield three (3) samples for analysis from each soil management unit (SU).
- 6) Ground water monitoring wells shall be purged a minimum of three casing volumes, or until field measurements for pH, specific conductance and temperature meet the following conditions: two successive temperature values measured at least five minutes apart are within one degree Celsius of each other, pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other, and two successive specific conductance values measured at least five minutes apart are within 10% of each other. This procedure will determine when the wells are suitable for sampling for constituents required by the permit. Other procedures, such as low flow sampling, may be considered by DEQ for approval. The static water level shall be measured prior to pumping or sampling for ground water.
- 7) Annual reporting of monitoring requirements is described in Section H, Standard Reporting Requirements.
- 8) Monitoring locations are defined in Appendix 1, "Environmental Monitoring Serial Numbers".

**Facility Monitoring Table**

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Daily	Flow meter	Flow of wastewater into reclaimed wastewater reuse system	Volume (million gallons and acre-inches) to each hydraulic management unit (HMU), record monthly and annually
Quarterly	Influent stream to DAF unit	Wastewater quality into DAF unit, 24-hour Composite Sample taken during the same time as the monthly DAF effluent sample	Chemical Oxygen Demand, Oil and Grease, pH
Monthly	Effluent downstream of DAF unit	Wastewater quality into land application system, 24-hour Composite Sample	Chemical Oxygen Demand, Oil and Grease, Total Kjeldahl Nitrogen, Ammonia-Nitrogen, Nitrite + Nitrate-Nitrogen, Total Phosphorus, Total Dissolved Solids, Volatile Dissolved Solids, Chloride, Electrical Conductivity, pH – also see Footnote 1

## G. Monitoring Requirements

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Daily when in use for water storage	Lagoons LG-0095-01 and LG-0095-04	Sample in lagoon	Dissolved Oxygen
Daily	Flow meter, Calibrated Pump Rate, or other DEQ approved method	Supplemental Irrigation Water	Volume (million gallons and acre-inches) to each HMU, report monthly and annually.
Twice per year (near the start and near the end of the irrigation water supply season)	Supplemental Irrigation	Grab sample, both ground water and canal water sources	Chemical Oxygen Demand, Total Kjeldahl Nitrogen, Nitrate + Nitrite Nitrogen, Total Phosphorus, Ortho Phosphorus, Total Dissolved Solids, Volatile Dissolved Solids, Chloride – also see Footnote 1
Twice per year (Apr and Oct)	MW-8S, MW-9S, MW-11S		Water Table Elevation, Water Table Depth
Twice per year (Apr and Oct)	MW-1S, MW-1D, MW-2S, MW-3S, MW-4S, MW-5S, MW-6S, MW-6D, MW-6XD, MW- 7SB, MW-10SB, MW-12S	Grab sample of ground water. See Note 6 above.	Water Table Elevation, Water Table Depth, Nitrate- Nitrogen, Total Phosphorus, Total Dissolved Solids, Total Iron, Total Manganese, Chloride, Sulfate, Dissolved Iron, Dissolved Manganese, Electrical Conductivity, and pH – also see Footnote 1
Monthly during GS	Each HMU	Calculate IWR for each crop type	Volume (million gallons and acre-inches) required for each crop, per HMU, record monthly
Daily during NGS	Each HMU used for NGS application	Temperature, precipitation, and field conditions	High and low air temperatures and precipitation during each 24- hour period. Field conditions observations (ice layer, areas of ponding, etc.) – see Footnote 2

## G. Monitoring Requirements

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Twice per year (near the start of GS between mid-February and mid-April, near the end of GS in October or November)	Each soil monitoring unit	See Note 5 above	Electrical Conductivity, SAR, Nitrate-Nitrogen, Ammonium Nitrogen, Plant Available Phosphorus (Olsen method), pH, Potassium, DTPA Fe and DTPA Mn. – also see Footnote 1
Annually	Each HMU	Crop type(s) and yield	Pounds/acre and total pounds per HMU (specify moisture basis)
	Each HMU	Plant tissue analysis: Composite sample of harvested portion of each crop per harvest	Total Nitrogen (Sum of Total Kjeldahl Nitrogen, nitrate and nitrate), Total Phosphorus, Ash (dry basis, tons/acre) – also see Footnote 1
	Each HMU	Calculate crop nitrogen and ash removal	Pounds/acre and total pounds per HMU (dry basis)
	Each HMU	Calculate NGS wastewater (WW) loading rate	Million gallons & Inches/NGS
	Each HMU	Calculate GS wastewater (WW) and supplemental irrigation (SI) loading rates	Million gallons & Inches/GS, WW Million gallons & Inches/GS, SI
	Each HMU	Calculate seasonal average COD loading rate (GS and NGS)	Pounds/acre-day
	Each HMU	Calculate wastewater nitrogen loading rate	Pounds/acre-year
Annually	Each HMU	Report nitrogen and phosphorus fertilizer application rates	Type and Pounds/acre-year

## G. Monitoring Requirements

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Annually	Ground Water monitoring wells, listed in Appendix 1	Evaluation of groundwater quality trends based on statistical analysis per Compliance Activity CA-095-02	Nitrate-nitrogen, Total Dissolved Solids, Sulfate and Chloride
Annually	Ground Water monitoring wells, listed in Appendix 1 and each HMU	Evaluation of effectiveness of plan for minimizing reuse operation's impact on environment per Compliance Activity CA-095-03	Total Dissolved Solids, Sulfate and Chloride – also see Footnote 1
Annually	Each HMU	Calculate phosphorus removal	Pounds/acre and total pounds per HMU (dry basis)
Annually	Each HMU	Calculate wastewater phosphorus loading rate	Pounds/acre-year
Every two (2) years, starting with first year of permit renewal	All flow measurement locations.	Flow measurement calibration of all flows to land application.	Document the flow measurement calibration of all flow meters and pumps used directly or indirectly to measure all wastewater and supplemental irrigation water flows applied to each HMU.

## G. Monitoring Requirements

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Every two (2) years, starting with first year of permit renewal	All supplemental irrigation pumps directly connected to the wastewater distribution system.	Backflow testing	Document the testing of all backflow prevention devices for all supplemental irrigation pumps directly connected to the wastewater distribution system(s). Report the testing date(s) and results of the test (pass or fail). If any test failed, report the date of repair or replacement of backflow prevention device, and if the repaired/replaced device is operating correctly.
As specified by Compliance Activity CA-0095-06	Lagoons LG-009501, LG-009504 and LG-009505	Seepage Testing	In DEQ-approved procedures per Compliance Activity CA-0095-06

Footnotes: 1. Parameters may be changed based on the results of Compliance Activity CA-095-03  
2. Data from the USBR Agrimet station at Parma may be used for the daily temperatures and precipitation.

## H. Standard Reporting Requirements

1. The permittee shall submit an Annual Wastewater Reuse Site Performance Report ("Annual Report") prepared by a competent environmental professional no later than **January 31** of each year which shall cover the previous year (see section F for reuse reporting period). The Annual Report shall include results for monitoring required in Section G, status of compliance activities, and an interpretive discussion of monitoring data (ground water, hydraulic loading, wastewater etc.) with particular respect to environmental impacts by the facility.
2. The annual report shall contain the results of the required monitoring as described in Section G. Monitoring Requirements. If the permittee monitors any parameter more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.
3. The annual report shall be submitted to the Engineering Manager at the following address.

Boise Regional Office  
1445 N. Orchard  
Boise, ID 83706-2239  
208-373-0550

A copy of the annual report shall also be mailed to:

Richard Huddleston, P.E.  
Wastewater Program Manager  
1410 N. Hilton  
Boise, ID 83706  
208-373-0561

4. Notice of completion of any work described in Section E. Compliance Schedule for Required Activities shall be submitted to the Department within 30 days of activity completion. The status of all other work described in Section E shall be submitted with the Annual Report.
5. All laboratory reports containing the sample results for monitoring required by Section G. Monitoring Requirements of this permit shall be submitted with the Annual Report.

## I. Standard Permit Conditions: Procedures and Reporting

1. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, operational controls and monitoring, which are installed or used by the permittee to comply with all conditions of the permit and the Wastewater Reuse Permit Regulations, in conformance with a DEQ approved, current Plan of Operations (Operations and Maintenance Manual) which describes in detail the operation, maintenance, and management of the wastewater treatment system. This Plan of Operations shall be updated as necessary to reflect current operations.
2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water require a permit under the Clean Water Act and must be authorized by the U.S. Environmental Protection Agency.
3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA 58.01.16.600.03. In order to prevent public health hazards and nuisance conditions the permittee shall:
  - a. Apply wastewater as evenly as practicable to the treatment area;
  - b. Prevent organic solids (contained in the wastewater) from accumulating on the ground surface to the point where the solids putrefy or support vectors or insects; and
  - c. Prevent wastewater from ponding in the fields to the point where the ponded wastewater putrefies or supports vectors or insects.
4. The permittee shall
  - a. Manage the wastewater reuse site as an agronomic operation where vegetative cover is grown and harvested or grazed to utilize the nutrients and minerals in the wastewater, and,
  - b. Not hydraulically overload any particular areas of the wastewater reuse site.
5. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The permittee's management of waste solids shall be governed by the terms of the DEQ approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.
6. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit at least six months prior to the expiration date of the existing permit in accordance with the Wastewater Reuse Permit Regulations and include seepage tests on all lagoons per latest DEQ procedures.
7. The permittee shall allow the Director of the Idaho Department of Environmental Quality or the Director's designee (hereinafter referred to as Director), consistent with Title 39, Chapter 1, Idaho Code, to:
  - a. Enter the permitted facility,
  - b. Inspect any records that must be kept under the conditions of the permit.
  - c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.
  - d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.
8. The permittee shall report to the Director under the circumstances and in the manner specified in this section:
  - a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
  - b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.
  - c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)

DEQ Regional Office: see Permit Certification Page  
Emergency 24 Hour Number 1-800-632-8000

- d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any non-compliance unless extended by the DEQ. This report shall contain:
  - i. A description of the non-compliance and its cause;

LA-000095-03	CTI-SSI Food Services, LLC	DRAFT	Page 18
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## I. Standard Permit Conditions: Procedures and Reporting

- ii. The period of non-compliance including to the extent possible, times and dates and, if the non-compliance has not been corrected, the anticipated time it is expected to continue; and
    - iii. Steps taken or planned to reduce or eliminate reoccurrence of the non-compliance.
  - e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.
9. The permittee shall take all necessary actions to prevent or eliminate any adverse impact on the public health or the environment resulting from permit noncompliance.
10. The permittee shall determine (on an on-going basis) if any noxious weed problems relate to the permitted sites. If problems are present, coordinate with the Idaho Department of Agriculture or the local County authority regarding their requirements for noxious weed control. Also address these control operations in an update to the Operations and Maintenance Manual.

## J. Standard Permit Conditions: Modifications, Violations, and Revocations

1. The permittee shall furnish to the Director within reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.
2. Both minor and major modifications may be made to this permit as stated in IDAPA 58.01.17.700.01 and 02 with respect to any conditions stated in this permit upon review and approval of the DEQ.
3. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the DEQ that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the reports as described in I. *Standard Reporting Requirements*, and plans and specifications for the proposed changes. No such facility expansion, production increase or process modification shall be made until plans have been reviewed and approved by the DEQ and a new permit or permit modification has been issued.
4. Permits shall be transferable to a new owner or operator provided that the permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.
5. Any person violating any provision of the Wastewater Reuse Permit Regulations, or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.
6. The Director may revoke a permit if the permittee violates any permit condition or the Wastewater Reuse Permit Regulations.
7. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing to the Board of the Department of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.
8. If, pursuant to Idaho Code § 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, a revocation hearing before the Board of the Department of Environmental Quality shall be provided. Such hearings shall be conducted in accordance with the Rules of Administrative Procedures contained in IDAPA 58.01.23.
9. The provisions of this permit are severable and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.
10. The permittee shall notify the DEQ at least six (6) months prior to permanently removing any permitted reuse facility from service, including any treatment, storage, or other facilities or equipment associated with the reuse site. Prior to commencing closure activities, the permittee shall: a) participate in a pre-site closure meeting with the DEQ; b) develop a site closure plan that identifies specific closure, site characterization, or cleanup tasks with scheduled task completion dates in accordance with agreements made at the pre-site closure meeting; and c) submit the completed site closure plan to the DEQ for review and approval within forty-five (45) days of the pre-site closure meeting. The permittee must complete the DEQ approved site closure plan.

# Appendix 1

## Environmental Monitoring Serial Numbers

### HYDRAULIC MANAGEMENT UNITS

Serial Number	Description	Acres
MU-009501	Field CP-N	116
MU-009502	Field CP-S	116
MU-009503 <sup>1</sup>	Field F-N	36
MU-009505	Corner Pivot Areas (CP-N1,2,3,4; CP-S1,2; CP-17B1)	37.1 <sup>2</sup>
MU-009506	Field CP-17B	88

Notes:

1. Emergency application of wastewater as set forth in Section F.
2. Area shown assumes hand-line irrigation of CP-N1 and pivot irrigation of other areas. If hand line irrigation is used for all areas, size is 52.1 acres.

### WASTEWATER SAMPLING POINTS

Serial Number	Description
WW-009501	Downstream of DAF Unit, 24-hour Composite Sample
WW-009502	Wastewater into DAF Unit, 24-hour Composite Sample

### SUPPLEMENTAL IRRIGATION WATER SAMPLING POINTS

Serial Number	Description
SI-009501	Supplemental irrigation water from ground water
SI-009502	Supplemental irrigation water from canal water

### LAGOONS

Serial Number	Description
LG-009501	Plant site, large lagoon (aerated)
LG-009504	Land application site, small mixing lagoon, south (aerated)
LG-009505	Land application site, large lagoon, north

Note:

1. With issuance of this permit, plant site lagoons LG-009502 and LA-009503 are decommissioned .

# Appendix 1

## Environmental Monitoring Serial Numbers

### SOIL MONITORING UNITS

Serial Number	Description	Associated MU
SU-009501	Field CP-N and Pivot Corners CP-N1,2,3,4	MU-009501 & MU-009505
SU-009502	Field CP-S and Pivot Corners CP-S1,2	MU-009502 & MU-009505
SU-009503	Field F-N	MU-009503
SU-009506	Field CP-17B and Pivot Corner CP-17B1	MU-009506 & MU-009505

### GROUND WATER MONITORING WELLS

Serial Number	Description	Location
GW-009501	MW-1S	See Appendix 2
GW-009502	MW-2S	See Appendix 2
GW-009503	MW-3S	See Appendix 2
GW-009504	MW-4S	See Appendix 2
GW-009505	MW-5S	See Appendix 2
GW-009506	MW-6S	See Appendix 2
GW-009507	MW-6D	See Appendix 2
GW-009508	MW-1D	See Appendix 2
GW-009509	MW-6XD	See Appendix 2
GW-009510 <sup>1</sup>	MW-7S (not used)	See Appendix 2
GW-009511	MW-8S	See Appendix 2
GW-009512	MW-9S	See Appendix 2
GW-009513 <sup>1</sup>	MW-10S (not used)	See Appendix 2
GW-009514	MW-11S	See Appendix 2
GW-009515	MW-12S	See Appendix 2
GW-009516	MW-7SB	See Appendix 2
GW-009517	MW-10SB	See Appendix 2

Note:

1. MW-7S and MW-10S are excluded from any monitoring requirements.

Appendix 2  
Site Maps

- Figure #1 Site Vicinity Plan
- Figure #2 Site Plan
- Figure #3 Plant & Land Application Site Flow Schematic

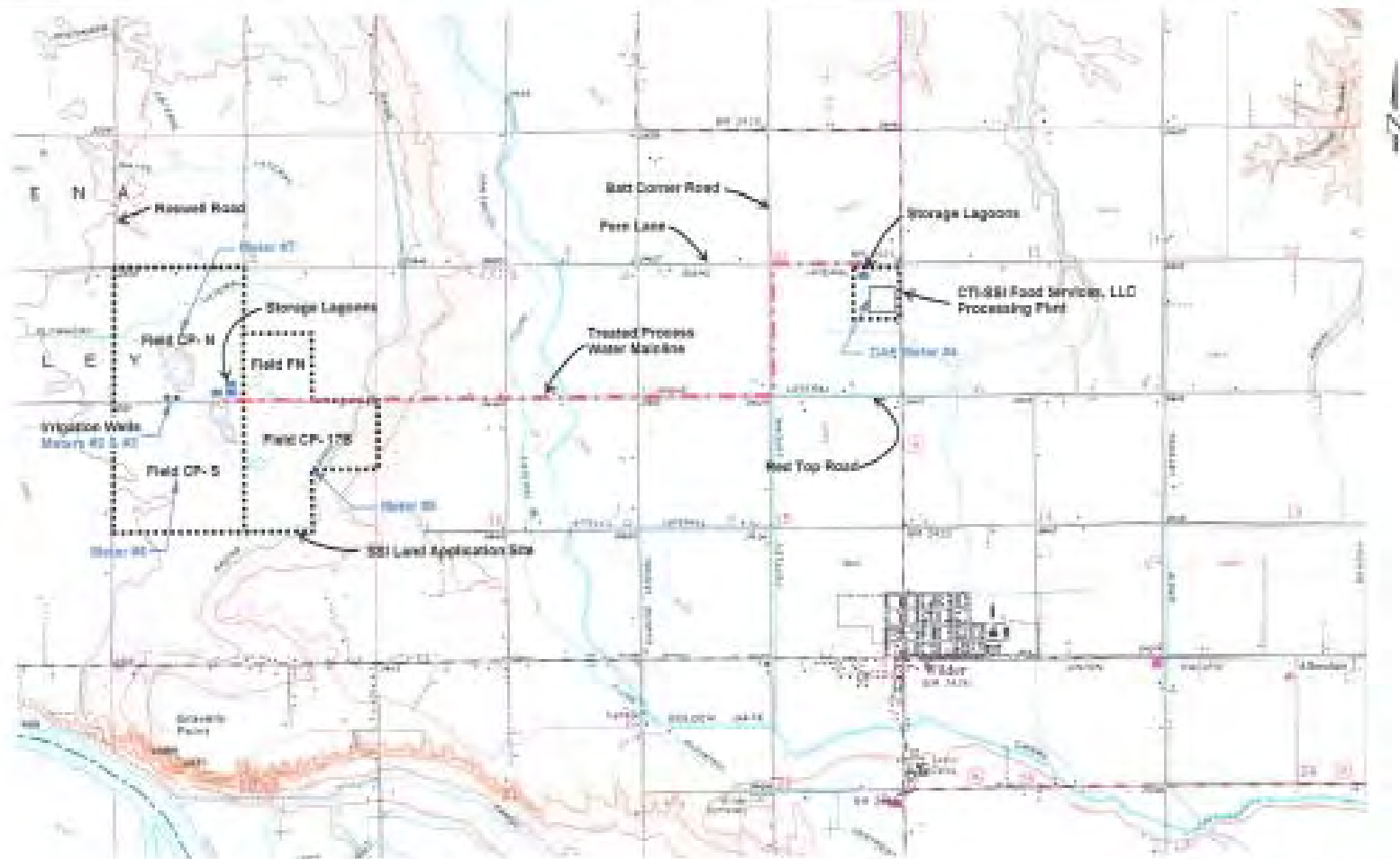
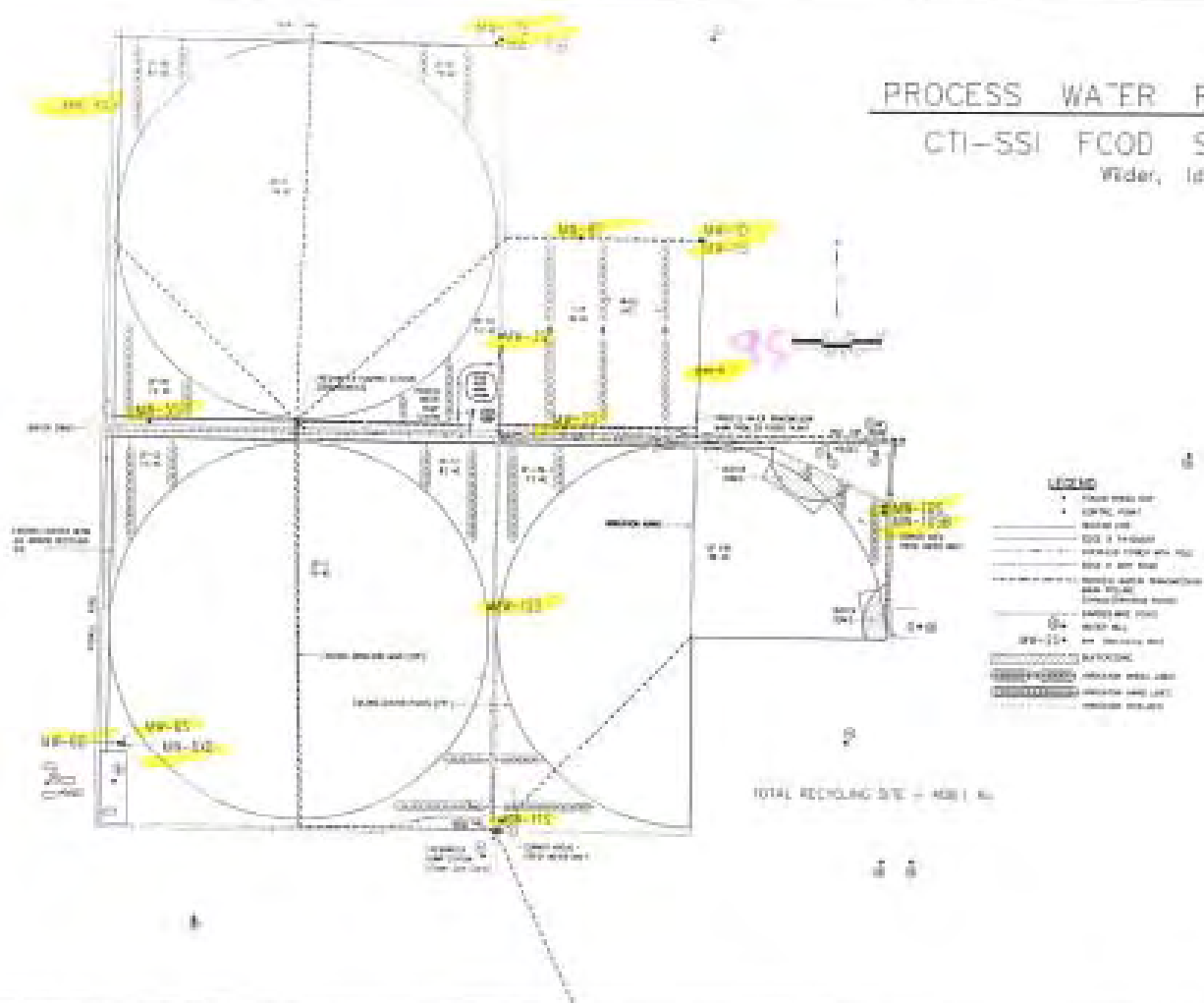


Figure 1 - Site Vicinity Plan  
Process Site & Land Application Site

Map Source: USGS 7.5' MSLR, DNR Geographic 1987  
Photorevised 1991

CTI-SSI FOOD SERVICES, LLC	
SSI Facility - Site Plan	
Figure 1	Brookway Engineering, PLLC
	Hydraulics - Hydrology - Water Resources
	2014 South Washington St., Suite 4 Tallahassee, FL 32301
2000 Locust Point	

# PROCESS WATER RECYCLING SITE CTI-SSI FOOD SERVICES, LLC Widen, Idaho



- LEGEND**
- 1. PROCESS WATER
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TOTAL RECYCLING SITE - 400,000 GAL

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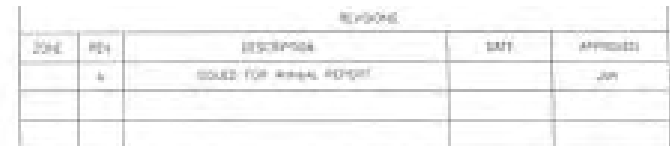


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 www.brookwayeng.com

CTI-SSI FOOD SERVICES, LLC - WIDEN, IDAHO  
 PROJECT NO. 2019-001

FIGURE 2 - SITE PLAN

PROJECT #  
 DATE #  
 REVISION #



-  PUMP
-  VALVE (NORMALLY CLOSED)
-  VALVE (NORMALLY OPEN)
-  FLOW METER

1. THE FLOW SCHEMATIC DEPICTS THE APPROXIMATE FLOW PATH FOR RAW, SEWAGE, AND OTHER WATER FROM THE SD FOOD SERVICES, THE FACILITY AND LAND APPLICATION SITE. ACTUAL FLOWMAY VARY SLIGHTLY.
2. THE NUMBERED METERS MONITOR THE FOLLOWING:  
METER #1 - FRESH WATER INTO THE PLANT  
METER #2 - PRECIPITATION WATER INTO FACTORY BILLS  
METER #3 - TOWN WATER FROM LAND APP. SAMP.  
METER #4 - WASTE WATER TO DAF FROM PLANT  
METER #5 - WATER APPLIED TO FIELD C-1  
METER #6 - WATER APPLIED TO FIELD C-2  
METER #7 - WATER APPLIED TO FIELD C-178  
PNEUM. CORREDS. & FIELD C-1 ARE NOT METERED
3. THIS VALVE IS NORMALLY OPEN DURING DRYWEATHER PERIODS FOR MAINT. OF SEWAGE/RAIN WATER AND NORMALLY CLOSED IN THE WET-DRYWEATHER PERIOD.



### PLANT & LAND APPLICATION SITE FLOW SCHEMATIC

part	class
1000	1000

TABLE 8.5  
continued